

07/27/2006 07:56 785-425-6642

STOCKTON FO

PAGE 03/05

7-27-206 8:37AM

FROM KS BOSTWICK IRRG DST 785 374 4305

WATER RESOURCES  
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KS DEPT OF AGRICULTURE

Above Lovewell Operations 2006 watering season

Initial deliveries 6-21 through 6-28 were made from natural flows following a large rain in the Franklin area on 6-16. Deliveries credited to Harlan County releases did not begin until 6-29 and continue through this writing 7-26.

The first release from Harlan County was on 6-22 hoping to follow the rainwater from 6-16 to avoid river losses. The leading edge of the release did not reach Guide Rock until 6-28 and did not reach the State line until 6-29. Our ability to manage the river flows by using the river gauges was useless because the error in the gauges was great due to the river channel being totally different from what the gauges were set for. The goal was to reach 265 cfs at the state line which would allow us to deliver water throughout every ride in the above Lovewell area. We never quite reached that mark but were successful in passing the water around without too many complaints from the irrigators. We ran a 350-375 cfs release up to July 10<sup>th</sup>. On the morning of the 10<sup>th</sup>, we received 2-4" of rain throughout the district allowing us to shut off the releases with a small amount of water left. We started a 50 cfs release on the 11<sup>th</sup> and continued until the 16<sup>th</sup> when the shut off elevation was reached. Through this time, we continued deliveries setting our goal at trying to get every irrigator up to 4"/acre on the fields they were irrigating. Even after the release was shut off on the 16<sup>th</sup>, influence from the water held up in the river continued through the 21<sup>st</sup> as evidenced by the river gauge (following adjustments). The flow to Riverton and guide rock was higher than could be credited to any tributary. On the evening of the 19<sup>th</sup> a large rain fell in the Harlan County area pushing the lake elevation back over the release mark and allow us to take a 100cfs release for 12 hrs on the 21<sup>st</sup>. This once again prolonged the flow, which we can utilize.

To summarize the operation, the spring could not have been crueler to our intentions being extremely dry and the river growing weeds and trees throughout the bed. We were fortunate to get a rain just ahead of releases taking away some of the losses. When releases were made, we didn't realize the gauges were nowhere near correct confusing my understanding of the travel in the River. Reports of low land flooding in the Bloomington area were evidence of the release being held up and spread out in the river. It took 375 cfs releases to realize 250 cfs flows at the state line. Regardless of the stress caused by not being able to get the water down the river, we managed to get water to the corn and alfalfa crops in what turned out to be a very timely manner. Many irrigators took water at our demand and not their choice in timing. As the summer turned out, it worked well for all of them. Corn and Alfalfa users have benefited greatly from the water. Soybean grower's benefits are increasing with the ability to continue deliveries at this later date. We have utilized every bit of the river and release we possibly could. Combined with one really good rain and some additional showers, it looks as though we have helped our irrigators to be in position for a good harvest this fall.

One other item, which should be noted, was a release of 10cfs at Guide Rock diversion dam as ordered by Nebraska Water Resources to satisfy a downstream senior water right. A good rain occurred a few days later, which solved the problem. If this same type of opportunity should ever occur again, a solution to this problem would be desirable.

Barfield

7

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K-State Field Office  
Division of Water Resources

07/27/2006 07:56 785-425-6842

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7-27-2006 8:36AM

FROM KS BOSTWICK IRRG DST 785 374 4305

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My final comments would be as bad as all this was. it couldn't have worked out much better. We did not bypass any water (except as explained above) at the diversion dam. The only water dumped into Lovewell came from the initial rain before releases and before many irrigators were ready for water and following the 2-4" rain when irrigator's fields would not hold more water. This water dumped into Lovewell will be utilized by the below Lovewell irrigators. The crops above Lovewell have all received a great benefit from the 4" delivered to the fields and hopefully the rest of the summer will not take away too much of what we have been able to do to this point.

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KS DEPT OF AGRICULTURE  
WATER RESOURCES

27/27/2006 07:56 785-425-6842

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FROM KS BOSTWICK IRRG DST 785 374 4305

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*Scott, the other sheet was below Lovewell*

WATER RESOURCES  
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*Kenny* JUL 27 2006

KS DEPT OF AGRICULTURE

DAILY WATER REPORT SUMMARY  
MAIN CANAL ABOVE LOVEWELL

DATE: 7/25/06  
CC 15.1: 45.00

CC 34.8: 0.00

NET SUP: 45.00

	CAN RUN	CAN DEL	CAN WST	LAT DIV	RUN LAT	LAT DEL	LAT WST
1	:	:	:	: 1.50	: 1	: 1.50	: 0.00
2	:	:	:	: 7.00	: 1	: 2.40	: 1.60
3	: 0	: 0.00	:	: 0.00	: 0	: 0.00	: 0.00
4	: 1	: 0.90	:	: 0.00	: 0	: 0.00	: 0.00
	: 2	: 0.90	:	: 8.50	: 2	: 3.90	: 1.60

LAT DIV: 8.50  
CAN LOSS: 35.60

LAT LOSS: 3.00  
DEL%: 0.11

BELOW LOVELWELL

DATE: 7/26/06

CC 38.0:

	CAN RUN	CAN DEL	CAN WST	LAT DIV	LAT RUN	LAT DEL	LAT WST
4	:	:	:	:	:	:	:
5	:	:	:	:	:	:	:
6	:	:	:	:	:	:	:
7	:	:	:	:	:	:	:
8	:	:	:	:	:	:	:
9	:	:	:	:	:	:	:
10	:	:	:	:	:	:	:
11	:	:	:	:	:	:	:
	:	:	:	:	:	:	:

LAT DIV: 0.00  
CAN LOSS: 0.00

LAT LOSS: 0.00  
DEL %: ERR

PREV ACCUM DIV AF: 7262.00  
TODAY DIV AF: 90.00  
TOT ACCUM DIV AF: 7352.00

PREV ACCUM DEL AF: 2955.00  
TODAY DEL AF: 9.60  
TOT ACCUM DEL AF: 2964.60

PREV ACCUM WST AF: 197.60  
TODAY WST AF: 3.20  
TOT ACCUM WST AF: 200.80

YEAR DEL %: 0.40  
YEAR WST %: 0.03

*Delivered to  
13,445 acres  
above Lovewell  
from H-Co. release +  
river flows.*

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JUL 27 2006

Stockton Water Control  
Office of Water Regulation